SAFETY DATA SHEET
Desinfektion PrimeSource Ren 87

SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II-EU

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Date issued	07.02.2012
Revision date	28.06.2013

1.1. Product identifier

Product name	Desinfektion PrimeSource Ren 87
Article no.	100478

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product group	Alkaline foam cleaning agent with chlorine.
Use of the substance/preparation	Disinfectant.
Relevant identified uses	SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen) PC8 Biocidal Products (e.g. Disinfectants, pest control) PROC10 Roller application or brushing ERC8B Wide dispersive indoor use of reactive substances in open systems
Uses advised against	No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Downstream user

Company name	MultiLine A/S
Office address	Alsvej 14, 8940 Randers SV
Postal address	Kirkebjergvej 17
Postcode	DK-4180
City	Sorø
Country	Danmark
Tel	+45 7010 7700
E-mail	psa@multiline.dk
Website	http://www.multiline.dk

1.4. Emergency telephone number

Emergency telephone	National Poisons Information Service:844 892 0111

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to 67/548/EEC or 1999/45/EC	N; R50 C; R31,R34
Substance / mixture hazardous properties	For further information, please refer to section 11.

2.2. Label elements

Hazard symbol

R-phrases	R31 Contact with acids liberates toxic gas. R34 Causes burns. R50 Very toxic to aquatic organisms.
S-phrases	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the lable where possible). S50 Do not mix with acids. S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
Composition on the label	Disodium metasilicate, pentahydrate:1 - 5 %, Sodium hypochlorite; active chlorine:4 %

2.3. Other hazards

Description of hazard	Do not mix with acid or acid containing products: toxic chlorine gas may be formed.
Health effect	Corrosive to skin and eyes. May cause permanent damage to the eyes, especially if the product is not washed away IMMEDIATELY. See section 11 for additional information on health hazards.
Environmental effects	The product is very toxic to aquatic organisms. Substantial amounts of the product may lead to a local change in acidity in small water systems which may have adverse effects on aquatic organisms. This product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Sodium hypochlorite, solution ...% Cl active	CAS no.: 7681-52-9 EC no.: 231-668-3 Index no.: 017-011-00-1	C; R34 R31 N; R50 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Note : B	30 - 60 %
Disodium metasilicate, pentahydrate	CAS no.: 10213-79-3 EC no.: 229-912-9 Registration number: 01-2119449811-37-0003	C, Xi; R34, R37 Skin Corr 1B; H314; Eye Dam. 1; H314; Met. Corr. 1; H290; STOT SE3; H335;	1 - 5 %

Substance comments <5%: Disinfectant , polycarboxylates .
The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General Remove affected person from source of contamination.

Inhalation	Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions. In case of chlorine poisoning: Move injured person to fresh air and after that to hospital.
Skin contact	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if any discomfort continues.
Eye contact	Important! Immediately rinse with water for at least 15 minutes. May cause permanent damage if eye is not immediately irrigated. Make sure to remove any contact lenses from the eyes before rinsing. Immediately transport to hospital or eye specialist. Continue flushing during transport to hospital.
Ingestion	Immediately rinse mouth and drink plenty of water. Call an ambulance. Bring along these instructions. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Do not give victim anything to drink if he is unconscious.
Recommended personal protective equipment for first aid responders	Wear necessary protective equipment. For personal protection, see section 8.

4.2. Most important symptoms and effects, both acute and delayed

Acute symptoms and effects	As described in section 2.2 and 2.3.
Delayed symptoms and effects	The etching penetrates deeply into the tissue and is first noticed after a while.

4.3. Indication of any immediate medical attention and special treatment needed

Other Information	In case of unconsciousness, ingestion or eye contact: Immediately call a doctor / ambulance. Show this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	This product is not flammable. During fire, gases hazardous to health may be formed. Water used for fire extinguishing, which has been in contact with the product, may be corrosive.
Hazardous combustion products	Toxic gases/vapours/fumes of: Chlorine. Hydrogen chloride (HCl).

5.3. Advice for firefighters

Personal protective equipment	Wear necessary protective equipment. For personal protection, see section 8.
Fire fighting procedures	Reference is made to the company fire procedure. If risk of water pollution occurs, notify appropriate authorities. Avoid breathing fire vapours.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Look out! The product is corrosive. Use protective gloves, goggles and suitable protective clothing. In case of inadequate ventilation, use respiratory protection. For personal protection, see section 8.

6.2. Environmental precautions

Environmental precautionary measures	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment.

6.3. Methods and material for containment and cleaning up

Cleaning method	Dam and absorb spillage with sand, sawdust or other absorbent. Wash contaminated area with water.

6.4. Reference to other sections

Other instructions	See section 8 and section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling: Avoid spilling, skin and eye contact. Use work methods which minimise spreading of vapours, dust, smoke, aerosols, splashes etc. to the extent technically possible. Do not mix with acidic products.

7.2. Conditions for safe storage, including any incompatibilities

Storage: Store in tightly closed original container in a dry and cool place. Keep separate from food, feedstuffs, fertilisers and other sensitive material. Store protected from acids.

Conditions for safe storage

Storage Temperature: Value: -5-20 °C

Storage Stabilit: Durability: 6 months.

7.3. Specific end use(s)

Specific use(s): The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

Substance	Identification	Value	TWA Year
Chlorine	CAS no.: 7782-50-5 EC no.: 231-959-5 Index no.: 017-001-00-7 Synonyms: Chlorine	15 min.: 0,5 ppm 15 min.: 1,5 mg/m3	2011

DNEL / PNEC

Summary of risk management measures, human: Data lacking.

Summary of risk management measures, environment: Data lacking.

8.2. Exposure controls

Recommended monitoring procedures: Not known.

Limitation of exposure on workplace: Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. An eye wash bottle must be available at the work site.

Safety signs

Respiratory protection

Respiratory protection: In case of inadequate ventilation: Wear respiratory protection with combination filter (dust and gas filter). Type B/P2.

Hand protection

Hand protection: Use protective gloves made of: Butyl rubber. Neoprene. Nitrile.

Eye / face protection

Eye protection: Use eye protection.

Skin protection

Skin protection (except hands): Wear apron or protective clothing in case of contact. Wear rubber footwear.

Thermal hazards

Thermal hazards	See section 5.

Appropriate environmental exposure control

Environmental exposure controls	See section 6.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Fluid.
Odour	Chlorine.
pH (as supplied)	Value: ~ 12,5
pH (aqueous solution)	Value: ~ 11
Comments, pH (aqueous solution)	1%.
Bulk density	Value: ~ 1,10 kg/l.
Solubility description	Completely soluble in water.

9.2. Other information

Other physical and chemical properties

Comments	No data recorded.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Generates toxic gas when in contact with acid. Reacts violently with strong acids. Do not add water directly to the product. It may cause a violent reaction. Risk of bumping (splashes).

10.4. Conditions to avoid

Conditions to avoid	Heating. Extremes of temperatures. Avoid contact with acids.

10.5. Incompatible materials

Materials to avoid	Strong acids. Acids, oxidising. Alkali-sensitive metals such as aluminium, tin, lead and zinc and alloys with these metals.

10.6. Hazardous decomposition products

Hazardous decomposition products	In case of fire, toxic gases (CO, CO2, NOx) may be formed. Chlorine gas and hydrogen chloride may be formed in a fire or by heating.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information:

Other toxicological data	Toxicological tests on the product has not been performed.

Toxicological data for substances

Substance	No data available for ingredient(s).
LD50 oral	Value: - - Animal test species: - Duration: - Comments: -

Other information regarding health hazards

General	This substance is corrosive.

Potential acute effects

Inhalation	Aerosols may be corrosive. Inhalation may cause: Serious damage to the lining of nose, throat and lungs.
Skin contact	Corrosive. Prolonged contact causes serious tissue damage.
Eye contact	Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.
Ingestion	Corrosive. Even small amounts may cause serious damage. May cause burns in mucous membranes, throat, oesophagus and stomach.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	The product contains a substance which is very toxic to aquatic organisms. Contains a substance (N;R50 or N;R50/53) that falls within the scope of the multiplication factor rule. Large amounts of the product may affect the acidity (pH-factor) in water with possible risk of harmful effects to aquatic organisms.

Toxicological data for substances

Substance	Sodium hypochlorite
Acute aquatic, fish	Method of testing: LC50 Species: P.promelas Duration: 96h
Acute aquatic, Daphnia	Value: 0,01-0,1 mg/l Method of testing: EC50 Species: Daphnia Magna Duration: 48h
Aquatic, comments	Very toxic to aquatic organisms. Harmful effect due to pH shift. May contribute to the formation chloro-organic compounds.

12.2. Persistence and degradability

Persistence and degradability	There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility	The product is water soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Environmental details, summation	The product is very toxic to aquatic organisms.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point. Dispose of waste and residues in accordance with local authority requirements.
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	Yes
EWC waste code	EWC: 0706 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
Other Information	When handling waste, consideration should be made to the safety precautions applying to handling of the product. Waste code applies to product remnants

in pure form.

SECTION 14: Transport information

14.1. UN number

ADR	1719
RID	1719
IMDG	1719
ICAO/IATA	1719

14.2. UN proper shipping name

ADR	CAUSTIC ALKALI LIQUID, N.O.S. (Disodium metasilicate, Sodium hypochlorite)
RID	CAUSTIC ALKALI LIQUID, N.O.S. (Disodium metasilicate, Sodium hypochlorite)
IMDG	CAUSTIC ALKALI LIQUID, N.O.S. (Disodium metasilicate, Sodium hypochlorite)
ICAO/IATA	CAUSTIC ALKALI LIQUID, N.O.S. (Disodium metasilicate, Sodium hypochlorite)

14.3. Transport hazard class(es)

ADR	8
Hazard no.	80
RID	8
IMDG	8
ICAO/IATA	8

14.4. Packing group

ADR	III
RID	III
IMDG	III
ICAO/IATA	III

14.5. Environmental hazards

ADR	Danger label for "Environmental hazard" should be used if packagings with more than 5 liters or 5 kilos are transported.
RID	Danger label for "Environmental hazard" should be used if packagings with more than 5 liters or 5 kilos are transported.
IMDG	Danger label for "Environmental hazard" should be used if packagings with more than 5 liters or 5 kilos are transported.
IMDG Marine pollutant	Yes

14.6. Special precautions for user

EmS	F-A, S-B
Special safety precautions for user	Not relevant.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Additional information.

Additional information.	Not relevant.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EEC-directive	Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents. Dangerous Preparations Directive 1999/45/EC. Dangerous Substance Directive 67/548/EEC.

Other Label Information	For professional users only. As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.
Legislation and regulations	The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2. Chemical safety assessment

Chemical safety assessment performed	No

SECTION 16: Other information

List of relevant R-phrases (under headings 2 and 3).	R37 Irritating to respiratory system. R34 Causes burns. R50 Very toxic to aquatic organisms. R31 Contact with acids liberates toxic gas.
List of relevant H-phrases (Section 2 and 3).	H290 May be corrosive to metals. H400 Very toxic to aquatic life. H335 May cause respiratory irritation. H314 Causes severe skin burns and eye damage.
Training advice	Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.
Information which has been added, deleted or revised	Change to Sections: 15.
Version	1
Responsible for safety data sheet	MultiLine A/S
Prepared by	MP